

Yoshinori Nito P.E. S.E.

Nationality; Japanese
Date of Birth; 4 August 1969
Education; MSc in Engineering, 1995 Tokyo Denki University
Bsc in Engineering, 1993 Tokyo Denki University

Employment History;

04/1995 – 03/1997	Structural Design Group Co., Ltd. 5-9-9 Hiroo, Shibuya-ku, Tokyo 150 Japan http://www2r.biglobe.ne.jp/~sdg/	Structural Engineer
04/1997 – 03/1998	Structural Design Group Co., Ltd. Seoul Office yungjiun Bid. 664-35 Yeoksam-Dong Kangnam-gu Seoul Republic of Korea	Project Manager
04/1998 – 09/2002	Dewhurst Macfarlane and Partners in Association with Goldreich Engineering, P.C. 45 East 20 th Street New York, NY 10003 USA http://www.dewmac.com/frame.html	Associate
9/2002 – 4/2009	Rafael Viñoly Architects PC 50 Vandam Street New York, NY 10013 USA http://www.rvapc.com/flashindex.html	Façade Engineer
10/2002 – 12/2009	engineers network Co., Ltd. Established in Tokyo, Japan	Partner
1/2010 – Present	Yoshinori Nito Engineering and Design PC 212 West 22 nd Street Unit 4G New York NY 10011 http://www.ynedpc.com Established in New York, USA	Principal

Professional Experience;

Prior to founding engineers network Co., Ltd. in 2002 and Yoshinori Nito Engineering and Design PC in 2010, Yoshinori Nito began his career as a structural designer / engineer to work on Makuhari Messe North Hall convention center with Structural Design Group Co., Ltd. Having worked on the large scale projects in Japan and South Korea under supervision of a well-known engineer Kunio Watanabe, he cultivated his expertise in engineering and was well trained to approach a structural design.

After he lived in South Korea for a year to complete Samsung Jong-ro Tower, he moved to New York in 1998 and became one of the first members of Dewhurst Macfarlane and Partners New York office where he was an Associate for three years and extended his specialist knowledge and experience in structural glass and custom curtain wall / façade systems. He was involved as lead designer / engineer for both main structure and façade system on Carl Icahn Laboratory at Princeton University, and Regional Performing Art Center Philadelphia, and Winter Garden Glass Atrium School of Business at the University of Chicago.

He has developed his skill in designing and engineering both heavy and light weight structures using various materials in both large and small scale projects include convention center, high-rise building,

museum, laboratory, residential, office, retail, hotel, hospital.

He applies his expertise in long span structure, high rise building, hybrid structure, tensile structure, shell, cable supported glass wall, self standing glass structure. He has been familiar about intensive structural analysis in linear static or non linear dynamic and large deflection, buckling, temperature change, time history in seismic event, construction sequence, and finite element method (FEM) analysis.

He has received 14th Annual Japan Consultants Association (JSCA) award for designing "Museum Cone of Mori Arts Center" in 2003. It is the most honorable award for a structural engineer in Japan.

He has invented many creative and sophisticated structural solutions, joint details and material use through the structural design of each project. Three of his inventions have been approved as his patents.

Projects Summary;

04/1995-04/1996

Makuhari Messe North Exhibition Hall Chiba, Japan

Architect Fumihiko Maki/ Maki and Associates
Engineer Structural Design Group Co., Ltd.
Title, Role Project engineer
Period Construction documents
Site area 43,960 m²
Floor area 37,176 m²
Structure Roof: 216m wide and 96m long steel trusses
Back stay cables and cast steel connectors
Frame: Steel in concrete structure
Foundation: Cast-in place concrete / precast piles
Construction Cost \$180 millions
Completion Date Oct 1997
http://www25.big.or.jp/~k_wat/messe2/index.htm

04/1996-04/1998

Samsung Jung-ro Tower Seoul, Republic of Korea

Architect Rafael Viñoly Architects PC
Engineer Structural Design Group Co., Ltd.
Title, Role Lead engineer / Project manager
Period Schematic design to Construction administration
Site area 5,033 m²
Floor area 58,744 m²
Structure 135m(443ft) High Rise Building
Frame: Vertical steel cylinder shells
Steel in concrete structure
Observatory: Steel truss (The Top Cloud)
Foundation: Spread footing
Construction Cost \$200 millions
Completion Date June 1999
http://www25.big.or.jp/~k_wat/KOR_sam/index.htm

1998

Ulsan Football Stadium Ulsan, Republic of Korea

Architect POS-AC
Engineer Structural Design Group Co., Ltd.
Title, Role Project engineer
Period Construction documents
Site area 21,966 m²
Floor area 81,550 m²
Structure Roof: Steel trusses with back stay cable
Frame: Precast prestressed concrete structure
Foundation: Spread footing

Construction Cost \$150 millions
Completion Date June 2001
http://www25.big.or.jp/~k_wat/KOR_ulsan/index.htm

1998-1999

Van Andel Institute for Education in Grand Rapids, Michigan USA

Architect Rafael Viñoly Architects PC
Engineer Dewhurst Macfarlane & Partners
Title, Role Project engineer
Period Design developments to Construction administration
Floor Area 152,849sq ft
Structure Steel structure and cast in place concrete shear wall
Foundation: Spread footing
Construction Cost \$45 millions
Completion Date May 2000

The Concrete Industry Board, Inc., 1999 Award of Merit

1998-1999

Center for Molecular and Cellular Biology, Queens College New York, New York USA

Architect Rafael Viñoly Architects PC
Engineer Dewhurst Macfarlane & Partners
Title, Role Lead engineer / Project manager
Period Schematic design to Construction documents
Floor Area 70,000sq ft
Structure laboratory: Precast prestressed concrete
Tower: Cast in place concrete
Foundation: Spread footing
Construction Cost \$15 millions
Status Unbuilt

1999-2001

Kimmel Center for the Performing Arts Philadelphia, Pennsylvania USA

Architect Rafael Viñoly Architects PC
Engineer Dewhurst Macfarlane & Partners
Title, Role Engineer in charge of Verizon Hall (Main Concert Hall)
Period Design developments to Construction administration
Total Floor Area 456,394 sq ft
101,000 sq ft for Verizon Hall (2,500 seats)
27,000 sq ft for Perlman Theatre (650 seats)
Structure Steel truss structure
Foundation: Spread footing
Construction Cost \$230 millions
Completion Date Dec 2001

Architectural Record

<http://archrecord.construction.com/projects/portfolio/archives/0203Kimmel-3.asp>

American Institute of Steel Construction, 2002 Engineering Awards of Excellence

http://www.aisc.org/MSCTemplate.cfm?Section=Back_Issues1&template=/ContentManagement/ContentDisplay.cfm&ContentID=3932

New York Association of Consulting Engineers, 2002 Engineering Excellence Award

American Council of Engineering Companies, 2002 Grand Award

British Consultants and Contractors Bureau, 2003 British International Expertise Award

Institution of Structural Engineer (UK), 2003 Structural Achievement Award

*General Building Contractors Association, 2003 Building Excellence Award
American Institute of Steel Construction, 2003 Innovative Design and
Excellence in Architecture Using Structural Steel Award*

1999-2000

Bengt Sjostrom / Starlight Theatre Rock Valley College Rockford, Illinois USA

Architect Studio/Gang Architects
Engineer Dewhurst Macfarlane & Partners
Title, Role Lead engineer / Project manager
Period Schematic design to Construction administration
Floor Area 135,000 sq ft
Structure Roof: Retractable steel roof
Frame: Steel structure + Masonry shear wall
Foundation: Spread footing
Construction Cost \$8.5 millions
Completion Date Oct 2003

Architectural Record

http://archrecord.construction.com/projects/bts/archives/perform/03_bengt/overview.asp

Engineering Record "\$1-Million Kinetic Skylight is Showstopper in Illinois"

<http://enr.construction.com/news/buildings/archives/030616.asp>

2001-2002

Apple Computing Flagship Store, Chicago USA

Architect Bohlin Cywinski Jackson Architects
Engineer Dewhurst Macfarlane & Partners
Title, Role Lead engineer / Project manager
Period Design developments to Construction documents
Structure Self standing glass stair / bridge / Façade with glass fins.
Completion Date May 2003

2000-2003

Carl Icahn Laboratory, Lewis-Sigler Institute for Integrative Genomics Princeton University, New Jersey USA

Architect Rafael Viñoly Architects PC
Engineer Dewhurst Macfarlane & Partners
Title, Role Lead engineer / Project manager
Period Schematic design to Construction administration
Floor Area 92,032 sq ft
Structure Steel structure and cast in place concrete shear wall
Foundation: Spread footing
Façade: glass walls suspended by stainless steel cables
Construction Cost \$48 millions
Completion Date May 2003

Architectural Record

http://archrecord.construction.com/projects/bts/archives/universities/03_CarlIcahn/overview.asp

arcspace.com

http://www.arcspace.com/architects/vinoly/vinoly_licahn/vinoly_licahn_index.htm

New York Council Society of American Registered Architects, 2003 Award of Excellence

2000-2003

University of Chicago Graduate School of Business Chicago, Illinois USA

Architect Rafael Viñoly Architects PC
 Engineer Dewhurst Macfarlane & Partners
 Title, Role Lead engineer for Winter Garden Glass Atrium
 Period Design developments to Construction documents
 Floor Area 399,129 sq ft
 Façade Area 35,000 sq ft
 Structure Palm tree type steel structure
 Foundation: Spread footing
 Construction Cost \$15 millions for Winter Garden \$180 millions for overall
 Completion Date 2004

2000-2001

Helmut Lang New Retail Store Aoyama Tokyo, Japan

Architect Gluckman Mayner Architects
 Engineer Dewhurst Macfarlane & Partners
 Title, Role Lead engineer / Project manager
 Period Schematic design to Construction documents
 Structure Post-tension Concrete and steel in concrete structure
 Façade: Glass façade & Glass fins
 Foundation: Cast-in place concrete pile
 Status Unbuilt

2001-2003

Mori Arts Center, Tokyo City View Tokyo, Japan

Architects Gluckman Mayner Architects, Mori Building, Irie Miyake
 Engineer Yoshinori Nito + DMP
 Title, Role Lead Designer, Principle
 Period Schematic design to Construction administration
 Structure Façade: Horizontal steel rings & vertical rods
 Roof Frame: Steel truss structure
 Completion Date April 2003

2001-2003

Mori Arts Center, Museum Museum Cone Tokyo, Japan

Architects Gluckman Mayner Architects, Mori Building, Irie Miyake
 Engineers Yoshinori Nito + DMP
 Title, Role Lead Designer, Principle
 Period Schematic design to Construction administration
 Façade Area 1,000 sq m
 Structure Cable net shell and steel cylinder funnel frame
 (Single layer cable net + horizontal compression rings)
 Foundation: Cast-in place concrete pile
 Façade: Integrated DPG connectors
 Construction Cost \$12 millions
 Completion Date April 2003

Architectural Record

http://archrecord.construction.com/projects/bts/archives/museums/0401_mori/overview.asp

Building Design & Construction

<http://www.bdcmag.com/magazine/articles/bdc0403mori.asp>

The Chicago Athenaeum American Architecture Award 2004

<http://www.chi-athenaeum.org/archawards/2004/moriarts.html>

Mori Art Museum Press Release

http://www.mori.art.museum/contents/press/mam_pr_e_030611.pdf

Reed Construction Data "Lofty Ambitions"

<http://www.reedconstructiondata.com/article/CA404413.html>

2004-2009	<p>Penn Medicine, Center for Advanced Medicine Philadelphia, Pennsylvania USA</p> <p>Architect Rafael Viñoly Architects PC</p> <p>Title, Role Lead engineer for main structure and curtain wall of the atrium</p> <p>Period Schematic design to Construction administration</p> <p>Floor Area 7,211,880 sq ft</p> <p>Structure Steel structure Stainless steel hanger rods Machinery finished stainless steel connectors Aluminum curtain wall framing</p>
2004	<p>City Crossing Winnipeg, Canada - International Design Competition, Third Place</p> <p>Architect Yoshihara McKee Architects</p> <p>Engineer engineers network Co., Ltd.</p> <p>Title, Role Lead Designer, Principle</p> <p>Period Proposal</p> <p>Structure Canopy for cable net and compression steel ring</p> <p>Status unbuilt</p>
2002-2004	<p>Etoile Shinsaibashi Building Osaka Japan</p> <p>Architect Kengo Kuma and Associates</p> <p>Engineer engineers network Co., Ltd.</p> <p>Title, Role Lead Designer, Principle</p> <p>Period Schematic design to Construction administration</p> <p>Facade Area 2,542 m2</p> <p>Structure Steel structure Aluminum curtain wall framing</p>
2006-2008	<p>New Y's Retail Store New York NY USA</p> <p>Architects Ishigami Design Office, Ralph Sobel Architect</p> <p>Engineer engineers network Co., Ltd.</p> <p>Title, Role Lead Designer, Principle</p> <p>Period Schematic design to Construction administration</p> <p>Structure Steel structure and masonry shear wall Glass facade Foundation: spread footing</p>
2005	<p>New JR Iwamizawa Station Building Hokkaido Japan - Design Competition Finalist</p> <p>Architect Masatomo Kojima and</p> <p>Engineer engineers network Co., Ltd.</p> <p>Title, Role Lead Designer, Principle</p> <p>Period Proposal</p> <p>Structure Steel shell structure Glass façade supported by cables</p> <p>Foundation: Spread footing</p> <p>Status one of 6 finalists at competition, unbuilt</p>
2005-2007	<p>Glass Sculptures "Tom Na H-iu"</p> <p>Artist Mori Mariko Studio</p> <p>Engineer engineers network Co., Ltd.</p> <p>Title, Role Lead Designer, Principle</p> <p>Period Schematic design to Construction administration</p>

Structure 5 meter tall self standing glass shell structure
Status built at Tokyo 2005, at London 2006, at Denmark 2006 at
Singapore 2007, at New York 2007

2006-2007

Oshima-en TeaShop Saitama Japan

Architect Yoshihara McKee Architects
Engineer engineers network Co., Ltd.
Title, Role Lead Designer, Principle
Period Schematic design to Construction administration
Structure Wood frame
Foundation: Spread footing

2006 AIA Small Projects Award (SPP Journal)

2004

East Futako-Tamagawa District Category 1 Urban Redevelopment Tokyo Japan - International Design Competition Finalist

Architect Kengo Kuma and Associates
Engineer engineers network Co., Ltd.
Title, Role Lead Designer, Principle
Period Proposal
Structure wood frame for long span roof
steel frame
Status one of 5 finalists at competition, unbuilt

2008-

Taniguchi Residence Kishiwada-shi, Osaka, Japan

Architect 8 Project Architect, Atelier KYU
Engineer Yoshinori Nito Engineering and Design PC
Period Schematic design to Construction administration
Structure cast in place concrete structure

2007-

Hamori Apartment 111 E10th Ave. New York New York USA

Architect Shirley Leon design Ops, Formactiv PC
Engineer Yoshinori Nito Engineering and Design PC
Period Schematic design to Construction administration
Structure Timber frame

2009-2010

1 5th Ave Apartment New York New York USA

Architects Yoshihara McKee Architects
Engineers Yoshinori Nito Engineering and Design PC
Period Schematic design to Construction administration
Structure Steel structure, Glass and Aluminum frame

2008-

4 East 43rd Street New York NY USA

Architect Aki Ishida Architect PLLC
Engineer Yoshinori Nito Engineering and Design PC
Period Schematic design to Construction administration
Structure Steel structure

2009-

Ferris Lin Residence Waccabuc, Town of Lewisboro Westchester County New York, USA

Architect Chan-li Lin AIA
Engineer Yoshinori Nito Engineering and Design PC
Period Schematic design to Construction administration
Structure Steel truss structure
Footing: Spread footing

- 2009- Ardesia Wine Bar, 52nd Street New York, NY USA**
 Architect Aki Ishida Architect PLLC
 Engineer Yoshinori Nito Engineering and Design PC
 Period Schematic design to Construction administration
 Structure Glass engineering and aluminum frame
- 2009 Urban Shed International Design Competition New York NY USA**
 Architect Aki Ishida Architect PLLC
 Engineer Yoshinori Nito Engineering and Design PC
 Title, Role Lead Designer, Principle
 Period Proposal
 Structure Aluminum frame
- <http://www.urbanshed.org/>
- 2009 Open Paradox - Korean Advanced Institute of Science and Technology Republic of Korea - International Design Competition Third Place**
 Architect Genseng Chicken Architecture
 Engineer Yoshinori Nito Engineering and Design PC
 Title, Role Lead Designer, Principle
 Period Proposal
 Structure Steel truss structure
- AIA New York Design Award 2010
http://cfa.aiany.org/files/2010_DesignAwardsLunch_PR_April8.pdf
- 2010- Sasakawa Residence Tokyo Japan**
 Architect Kohei Sasakawa Architect
 Engineer Yoshinori Nito Engineering and Design PC
 Title, Role Lead Designer, Principle
 Period Proposal
 Structure Steel structure + cast in concrete retaining wall
 Foundation Spread footings
- 2010- Ventilation Tower Glass Façade Tokyo Japan**
 Architect/Engineer Yoshinori Nito Engineering and Design PC
 Title, Role Lead Designer, Principle
 Period Schematic Design
 Structure Stainless Steel Cable Truss
 Corner Clamp and Curved laminated Safety Glass
- 2010- The International Multiple Sclerosis Management Practice – IMSMP at 57th Street New York USA**
 Architect Yoshihara McKee Architects
 Engineer Yoshinori Nito Engineering and Design PC
 Title, Role Lead Designer, Principle
 Period Schematic design to Construction administration
 Structure Steel structure for new stair and machineries
 Concrete ramp
 Evaluation and Reinforcement for concrete flat slab

Writing & Publish;

GA Material Space GLASS 02 A.D.A EDITA Tokyo Co., Ltd.
http://www.ga-ada.co.jp/japanese/ga_sozai/ga_sozai_02.html

Detail magazine 159 Jan 2004 Shokokusha

<http://www.shokokusha.co.jp/detailback.html>

Nikkei Architecture 2003 8-4 No.750 Nikkei Business Publications, Inc.
<http://www.japandesign.ne.jp/HTM/MAGAZINE/NIKKEI-AR/750/>

Nikkei Architecture 2003 8-18 No.751 Nikkei Business Publications, Inc.
<http://www.japandesign.ne.jp/HTM/MAGAZINE/NIKKEI-AR/751/>

Visual Architecture December 2003 Vol.40 304 Kenchikugohou Corporation
<http://www.k-gaho.co.jp/backnumber.html>

Steel Design 2003 Vol.2 Kenpohsha

Structure No.88 Oct. 2003 JSCA
http://www.jsca.or.jp/vol2/123publish/str_list/str_list5.html

Intelligent Glass Solutions February 2004
"The Amazing Glass Cone"

Intelligent Glass Solutions January 2005
"The use of laminated stone glass in the designing of a curtain wall for the Etoile Shinsaibashi Building"

Kenchiku Gijutsu March 2009
<http://www.glassfiles.com/library/17/article927.htm>

Personal Award;

JSCA Award (Japan Structural Consultants Association) as structural designer/engineer of Museum Cone of Mori Arts Center project on June 2003
<http://www.jsca.or.jp/vol2/22prize/2003/nitoh.html>

Professional Affiliations;

Architectural Institute of Japan (AIJ)
26-20, Shiba 5-Chome, Minato-ku, Tokyo 108-8414 Japan
www.aij.or.jp/
1993-1996, 06/2009

Japan Structural Consultants Association (JSCA)
3-2 Kudankita 1-Chome, Chiyoda-ku, Tokyo 102 Japan
www.jsca.or.jp/vol2/31webmst/english.html
03/2003-Present Time

American Institute of Steel Construction (AISC)
One East Wacker Drive Suite 700 Chicago, IL 60601-1802
www.aisc.org/
11/2005-Present Time

State of Connecticut Department of Consumer Protection
Registered as Professional Engineer (license #24355)
www.ct.gov/dcp
03/2006-Present Time

State of New York, Office of the Professions
Registered as Professional Engineer (license #087022)
<http://www.op.nysed.gov/>

Structural Engineers Association of New York
536 LaGuardia Place New York NY 10012
<http://seaony.org/>
04/2010-Present Time

Recent Academic Papers;

- 1 Write a paper for: Architectural Institute of Japan
Speaker at Conference on August 2, 2002 in Hokuriku, Japan
Read a paper for: Architectural Institute of Japan in August 2, 2002
Title: "Buckling Examination of the Glass Support Structure for
ROPPONGI HILSS (Museum Cone) - Part 1 Buckling
Test"
Reference No.: 20372
Written by: Yoshinori Nito, Yumi Fujikawa
Published in: August 2002
- 2 Write a paper for: Architectural Institute of Japan
Title: "Buckling Examination of the Glass Support Structure for
ROPPONGI HILSS (Museum Cone) - Part 2 Analysis of
the Buckling Strength"
Reference No.: 20373
Written by: Yoshinori Nito, Yumi Fujikawa
Published in: August 2002
- 3 Write a paper for: Glass Processing Days (GDP)
Title: "Structural Design of the Museum Cone"
Written by: Yoshinori Nito
Speaker at Conference on June 20th 2005 in Tampere, Finland
<http://www.glassprocessingdays.com/>
<http://www.glassfiles.com/library/17/article927.htm>

Patents;

- 1 Patent for: Structure of Cable Net Shell and Glass Support Structure
Patentees: Yoshinori Nito + Yumi Fujikawa
Asahi Glass Building Component Engineering Co., Ltd.
Date of apply: April 30, 2004
Reference No.: 2004-135253 for Japan Patent Office
- 2 Patent for: Invention of Support Fittings for Cable Net Shell and
Glass Support Structure
Patentees: Yoshinori Nito + Yumi Fujikawa
Asahi Glass Building Component Engineering Co., Ltd
Date of apply: April 30, 2004
Reference No.: 2004-135254 for Japan Patent Office
- 3 Patent for: Invention of Connection Joint for Compression Rings of
Cable Net Shell
Patentees: Yoshinori Nito + Yumi Fujikawa
Asahi Glass Building Component Engineering Co., Ltd
Date of apply: April 30, 2004
Reference No.: 2004-135255 for Japan Patent Office